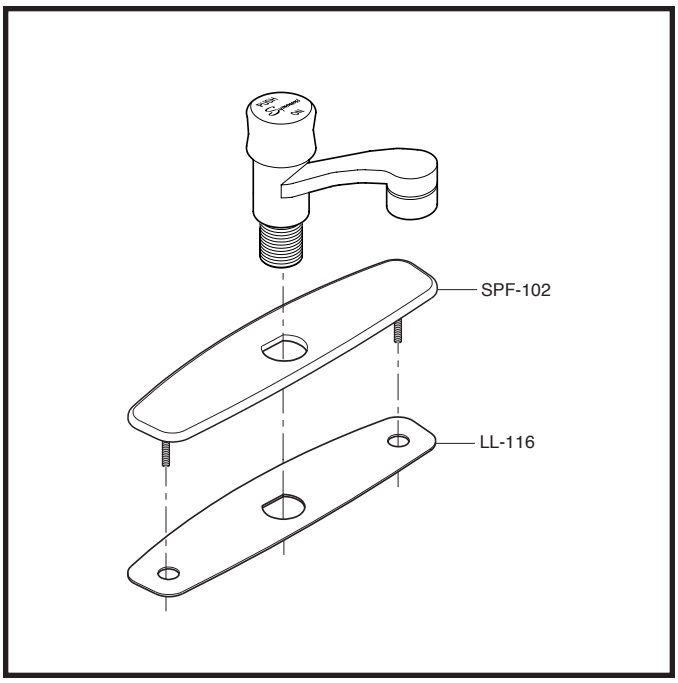
S-72 Series Metering Faucet

DP Conversion Plate

Installation

1. 8" Deck plate (SPF-102) and conversion plate gasket (LL-116) replace 4" center deck plate (SPF-28) and gasket (SPF-27).
2. Place the Conversion plate gasket (LL-116) on the underside of the plate.
3. Continue with enclosed installation instructions ZV-321.



Symmons Industries, Inc. ▪ 31 Brooks Drive ▪ Braintree, MA 02184
(800) 796-6667, (781) 848-2250 ▪ Fax (800) 961-9621, (781) 843-3849
Website: www.symmons.com ▪ Email: customerservice@symmons.com

SYMMONS®
the smart choice™

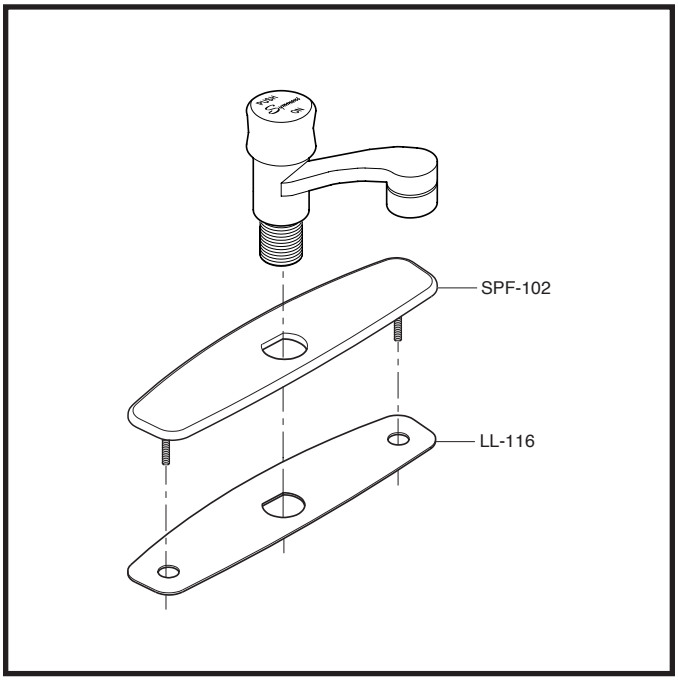
©2003, 2008 Symmons Industries, Inc. Printed in U.S.A. ▪ 050508

S-72 Series Metering Faucet

DP Conversion Plate

Installation

1. 8" Deck plate (SPF-102) and conversion plate gasket (LL-116) replace 4" center deck plate (SPF-28) and gasket (SPF-27).
2. Place the Conversion plate gasket (LL-116) on the underside of the plate.
3. Continue with enclosed installation instructions ZV-321.



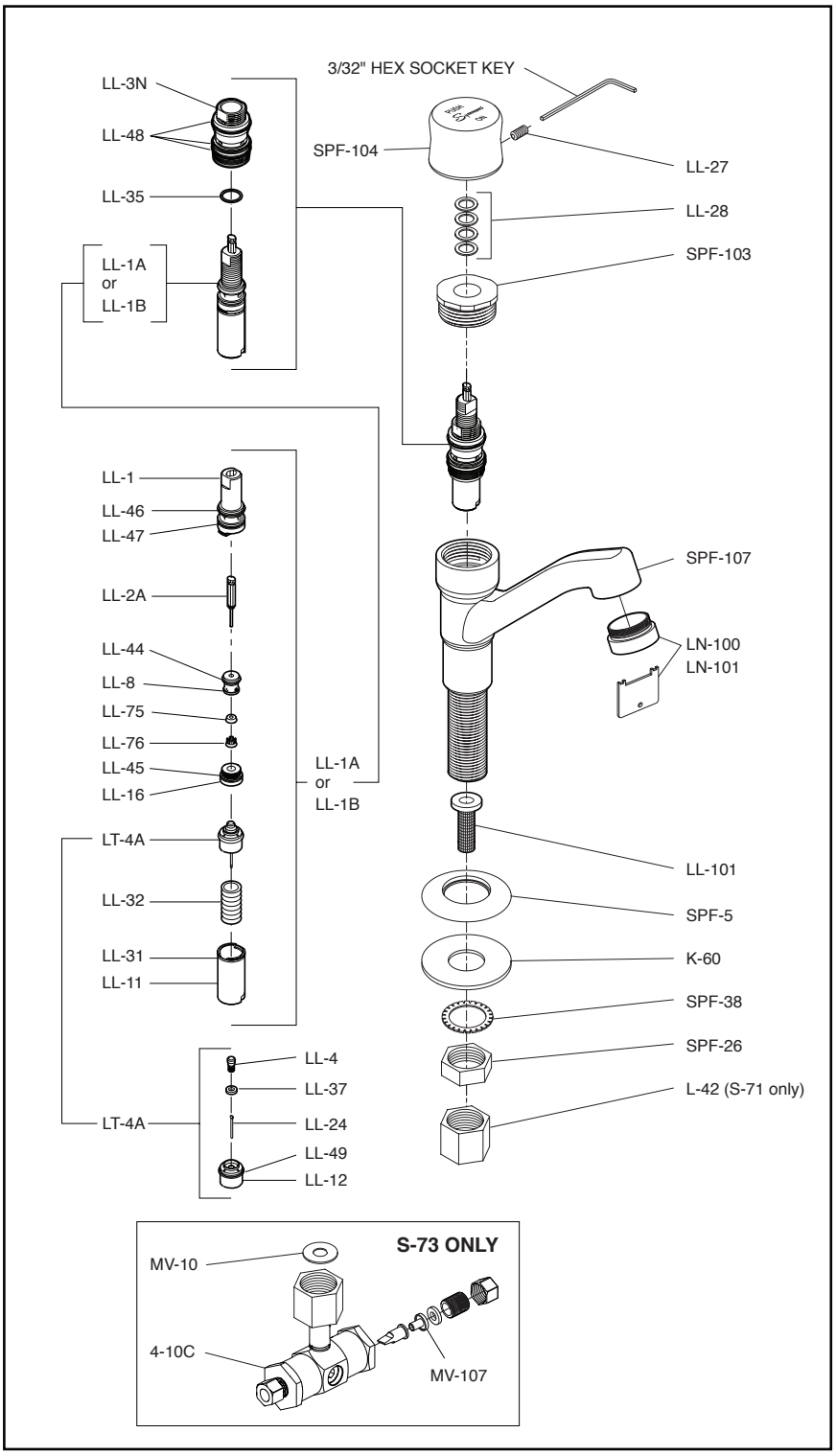
Symmons Industries, Inc. ▪ 31 Brooks Drive ▪ Braintree, MA 02184
(800) 796-6667, (781) 848-2250 ▪ Fax (800) 961-9621, (781) 843-3849
Website: www.symmons.com ▪ Email: customerservice@symmons.com

SYMMONS®
the smart choice™

©2003, 2008 Symmons Industries, Inc. Printed in U.S.A. ▪ 050508

S-71 and S-73 Series

EVB-9	O-ring
K-60	Washer
L-42	Coupling nut
LL-24	Control rod
LL-27	Set screw
LL-28	Cycle time washers
LL-37	Rubber washer
LL-60B	Spray outlet w/wrench
MF-1	Replacement Cartridge
MV-10	Rubber washer
SPF-1	Spout assembly
SPF-2	Bushing cap
SPF-3	Bushing
SPF-4	Cap (plain)
SPF-4C	Cap (cold)
SPF-4H	Cap (hot)
SPF-5	Flange
SPF-6	Metering chamber
SPF-7	Seat
SPF-8	U-cup nut
SPF-9	Metering pin
SPF-14	Huvacup
SPF-16	U-cup
SPF-18	Compression spring
SPF-26	Hex nut
SPF-38	Lock washer
SPF-101	Pin cone
TT-47	O-ring
4-10C	Mechanical mixing valve



Tools required for disassembly

Order MF-KIT-W, consisting of:

LL-27W	3/32" Hex socket key To remove handle set screw
LL-60K	Spray outlet wrench To remove spray outlet (included with faucet)

Other standard tools required:

Adjustable or 1" and 1/4" open end wrench, pliers, 5/32" hex socket key

Repair KIT-MF consists of:
EVB-9, LL-24, LL-37, SPF-14, SPF-16, TT-47(2)

S-72 and S-74 Series

EVB-9	O-ring
K-60	Washer
KN-23	Anchor bar
KN-26	Spacer
L-42	Coupling nut
LL-24	Control rod
LL-27	Set screw
LL-28	Cycle time washers
LL-37	Rubber washer
LL-60B	Spray outlet w/wrench
LL-71A	In-line checks (two)
MF-1	Replacement Cartridge
MV-10	Rubber washer
SPF-1	Spout assembly
SPF-2	Bushing cap
SPF-3	Bushing
SPF-4	Cap (plain)
SPF-6	Metering chamber
SPF-7	Seat
SPF-8	U-cup nut
SPF-9	Metering pin
SPF-14	Huvacup
SPF-16	U-cup
SPF-18	Compression spring
SPF-26	Hex nut
SPF-27	Deck plate gasket
SPF-28	Deck plate
SPF-38	Lock washer
SPF-101	Pin cone
TT-47	O-ring
4-10C	Mechanical mixing valve

Tools required for disassembly

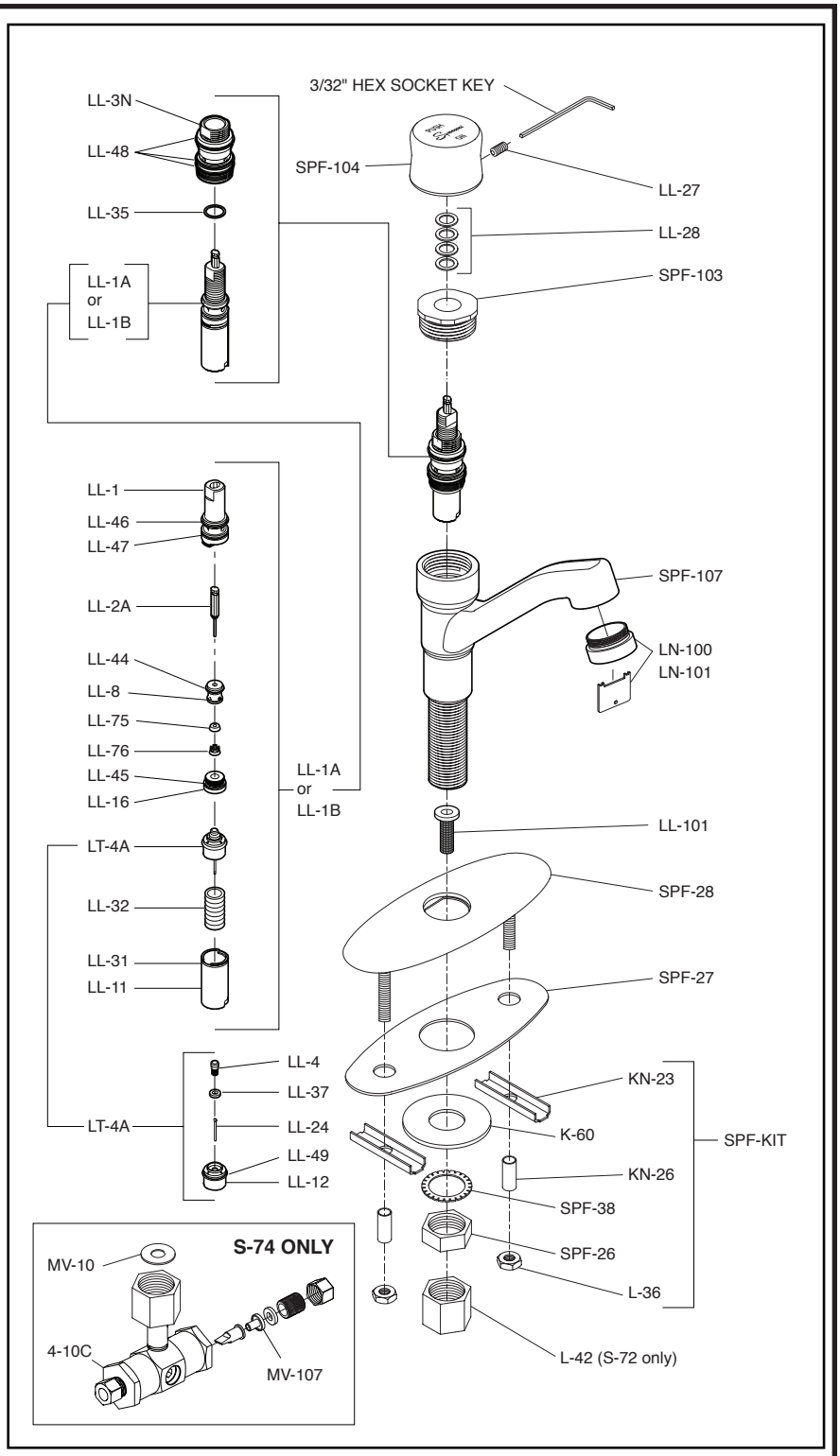
Order MF-KIT-W, consisting of:

LL-27W	3/32" Hex socket key To remove handle set screw
LL-60K	Spray outlet wrench To remove spray outlet (included with faucet)

Other standard tools required:

Adjustable or 1" and 1/4" open end wrench, pliers, 5/32" hex socket key

Repair KIT-MF consists of:
EVB-9, LL-24, LL-37, SPF-14, SPF-16, TT-47(2)



SERVICE INSTRUCTIONS

1. General maintenance may require the repair or replacement of the cartridge unit.
2. Shut off water supply to the faucet.
3. Remove cap (SPF-4) by loosening allen screw with 3/32" hex socket key.
4. Using a 1" wrench or adjustable wrench, loosen bushing cap (SPF-2). Remove bushing cap/cartridge assembly from faucet body.
5. Slide bushing cap off of control cartridge (MF-1).
6. Cartridge can either be repaired or replaced at this point. Disassemble cartridge by unscrewing bushing (SPF-3) from metering chamber (SPF-6). Use 5/32" hex key inserted in hole in bushing (SPF-3) to hold bushing secure. Use pliers to grasp bottom of metering chamber (SPF-6), unthread from bushing. Slide the bushing (SPF-3) off the metering pin (SPF-9).
7. Ordinary service may only require the rebuilding of the cartridge using the replacement o-rings and washers from KIT-MF. To install parts replace the o-ring (EVB-9) on the bushing cap (SPF-2). Use pliers to grasp and hold the narrow section of the metering pin (SPF-9). Use adjustable wrench to loosen the u-cup nut (SPF-8). Slide seat assembly (LL-37/SPF-7/SPF-16) off of the metering pin (SPF-9). Replace huva cup (SPF-14) in top of the bushing (SPF-3) with the tapered end facing down. Replace the o-ring (TT-47) in the bushing. Insert the metering pin (SPF-9) through the top of the bushing. Slide the rubber washer (LL-37), the seat (SPF-7) and the u-cup (SPF-16) onto the metering pin (SPF-9). Replace the control rod (LL-24) in the u-cup nut (SPF-8) and thread onto the metering pin (SPF-9). Replace o-ring (TT-47) on top of the metering chamber (SPF-6).
8. Reassemble, reversing the above procedures.

TROUBLE SHOOTING CHART

Problem	Cause	Solution (Follow service instructions)
Faucet runs to long or to short.	Timing	Remove cap (SPF-4) then add washers (LL-28) to stem to shorten time or remove washers to lengthen time.
Faucet drips	Seat washer worn or foreign matter (chips, dirt, solder, etc.) is between washer and seat surface.	Disassemble cartridge by unscrewing bushing (SPF-3) from metering chamber (SPF-6). Use 5/32" hex socket key inserted in hole in bushing (SPF-3) to hold bushing secure. Use pliers to unthread metering chamber (SPF-6) from bushing. Clean seat washer (SPF-37) and seating surface of bottom of bushing (SPF-3). Check control rod (LL-24) for burr then reassemble.
Faucet runs constantly.	Seat washer not closing on seat surface or seat washer and/or seat surface worn.	Disassemble cartridge by unscrewing bushing (SPF-3) from metering chamber (SPF-6). Use 5/32" hex socket key inserted in hole in bushing (SPF-3) to hold bushing secure. Use pliers to grasp bottom of metering chamber (SPF-6), unthread from bushing. Clean seat washer (SPF-37) and seating surface of bottom of bushing (SPF-3). Check control rod (LL-24) for burr then reassemble. Excessive wear may require the repair or replacement of the cartridge unit (MF-1).
Water leaks from under handle.	Stem washers worn.	Remove cartridge and replace washers using KIT-MF.
Faucet leaks on or under counter.	4-10C connections not seated properly.	Check connections on 4-10C.
Faucet bleeding between hot and cold, not holding consistent temperature.	Integral checks not operating properly.	Clean or replace checks (MV-107).
Handle is lose.	Set screw has loosened.	Tighten set screw.

Commercial Limited Warranty

Symmons warrants to the original purchaser that any Symmons product (excluding batteries) when used in industrial, commercial or business use will be free of defects in material and workmanship during normal use for a period of 5 years from the date of purchase. At our option, we will either have you send the defective part or product prepaid to us for inspection, or we may elect to send you the replacement part or product without investigation. A replacement for any defective part or product, either new or refurbished (at our option), will be supplied FREE OF CHARGE for installation by the purchaser. Defect or damage caused by the use of replacement parts other than Symmons Genuine Replacement Parts will void this warranty. This warranty excludes product damage due to installation error, product abuse, or product misuse whether performed by a contractor, service company or yourself.

Damage to the chrome and/or other decorative finishes on Symmons products may be a result of improper handling or abusive treatment. Finishes should only be cleaned with a soft, damp cloth or sponge. Use of polish, abrasive cleaners, solvents, or acid cleaners will damage the finish and void this warranty.

There are no other express warranties on this product and ALL WARRANTIES OF MERCHANTABILITY AND OTHER IMPLIED WARRANTIES ARE LIMITED IN ACCORDANCE WITH APPLICABLE LAW. SYMMONS INDUSTRIES, INC., EXPRESSLY DISCLAIMS CONTINGENT LIABILITY AND CONSEQUENTIAL DAMAGE OF EVERY KIND. Since some states do not allow limitations on how long an implied warranty lasts or an exclusion or limitation of incidental or consequential damages the above limitation or exclusion may not be applicable. This warranty gives specific legal rights. Other rights may vary from state to state.

To obtain warranty service, write to Symmons Industries, Inc., 31 Brooks Drive, Braintree, MA 02184-3804 or call our Customer Service Department at 1-800-SYMMONS. If writing to us, please include proof of purchase, the model number of the product with a brief description of the problem, your name, address and phone number.

Symmons Industries, Inc. ▪ 31 Brooks Drive ▪ Braintree, MA 02184
(800) 796-6667, (781) 848-2250 ▪ Fax (800) 961-9621, (781) 843-3849
Website: www.symmons.com ▪ Email: customerservice@symmons.com

©2007, 2008 Symmons Industries, Inc. Printed in U.S.A. ▪ ZV-321 ▪ 050508

SYMMONS®
the smart choice™